DRA5143E

Silicon PNP epitaxial planar type

For digital circuits Complementary to DRC5143E DRA2143E in SMini3 type package

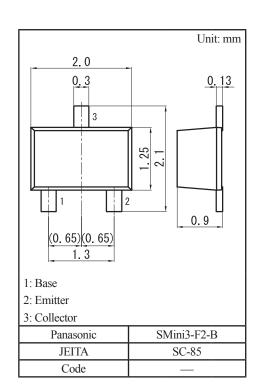
Features

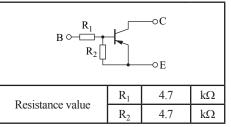
- Low collector-emitter saturation voltage $V_{CE(sat)}$
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL: Level 1 compliant)
- Marking Symbol: L5

Packaging

DRA5143E0L Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

Absolute Maximum Ratings $T_a = 25^{\circ}C$								
Parameter	Symbol	Unit						
Collector-base voltage (Emitter open)	V _{CBO}	-50	V					
Collector-emitter voltage (Base open)	V _{CEO}	-50	V					
Collector current	I _C	-100	mA					
Total power dissipation	P _T	150	mW					
Junction temperature	Tj	150	°C					
Storage temperature	T _{stg}	-55 to +150	°C					

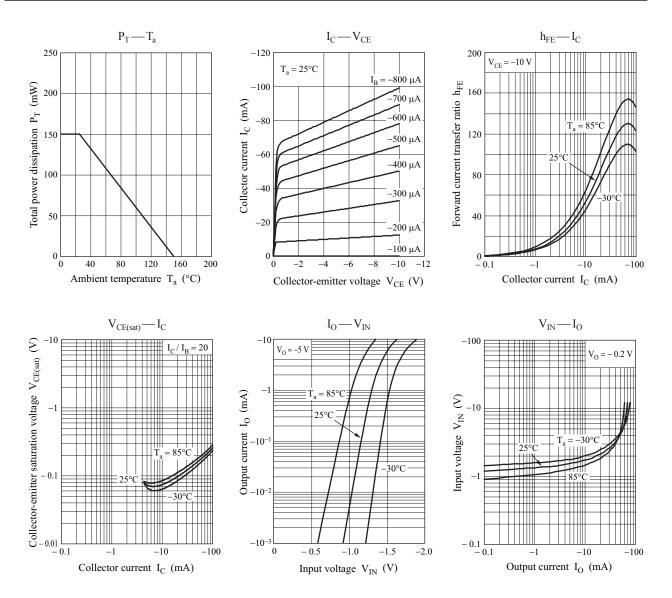




Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

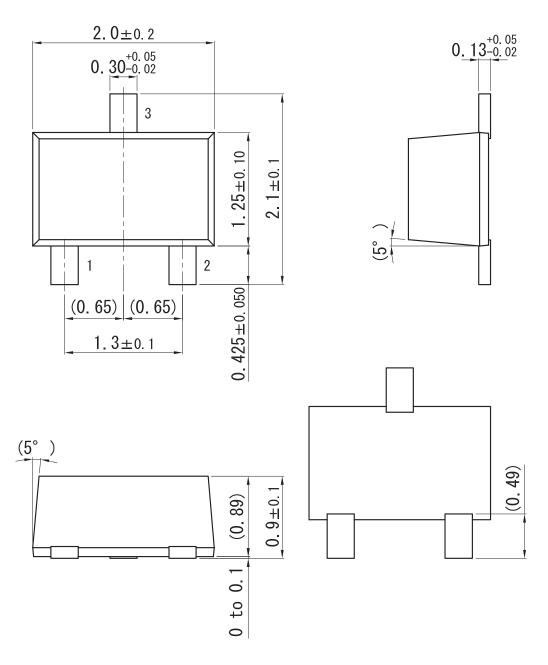
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \ \mu {\rm A}, I_{\rm E} = 0$	-50			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{\rm CE} = -50$ V, $I_{\rm B} = 0$			- 0.5	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{\rm EB} = -6 \text{ V}, I_{\rm C} = 0$			-2.0	mA
Forward current transfer ratio	h _{FE}	$V_{CE} = -10 \text{ V}, I_C = -5 \text{ mA}$	20			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = -0.5 \text{ mA}$			-0.25	V
Input voltage (ON)	V _{I(on)}	$V_{\rm CE} = -0.2$ V, $I_{\rm C} = -5$ mA	-1.9			V
Input voltage (OFF)	V _{I(off)}	$V_{CE} = -5 \text{ V}, I_C = -100 \mu\text{A}$			- 0.8	V
Input resistance	R ₁		-30%	4.7	+30%	kΩ
Resistance ratio	R_1 / R_2		0.8	1.0	1.2	

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

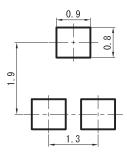


Unit: mm

SMini3-F2-B



Land Pattern (Reference) (Unit: mm)



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